

# SMD Power Inductor CDBH128



Halogen Free



## Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 13.0 × 12.8 × 8.0mm Max.
- Product weight: 5.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C
- Solder reflow temperature: 260 °C peak.

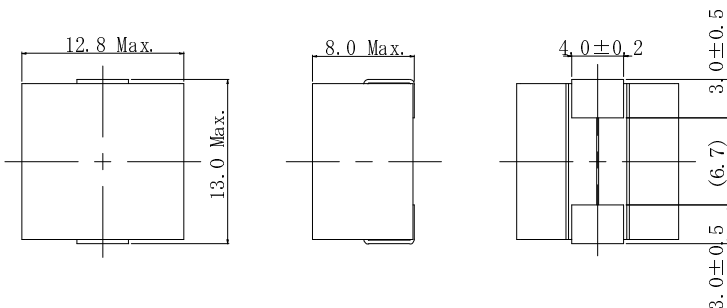
## Packaging

- Carrier tape and reel packaging.
- 11.8" diameter reel
- 250pcs per reel

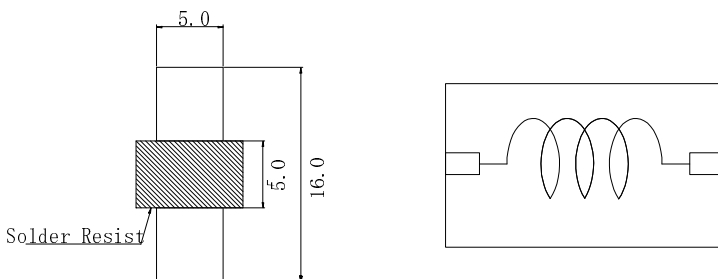
## Applications

- Ideally used in the multiple chopper type DC-DC converters for servers and various decentralized power supplier.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 125°C)	
CDBH128NP-R22MC	R22	0.22 ± 20%	0.5(0.25)	52	40	54
CDBH128NP-R36MC	R36	0.36 ± 20%	0.5(0.25)	33	24	54
CDBH128NP-R45MC	R45	0.45 ± 20%	0.5(0.25)	23	18	54

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

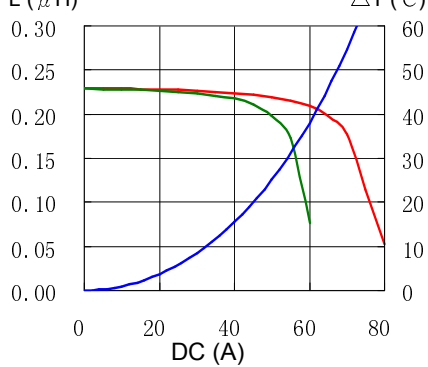
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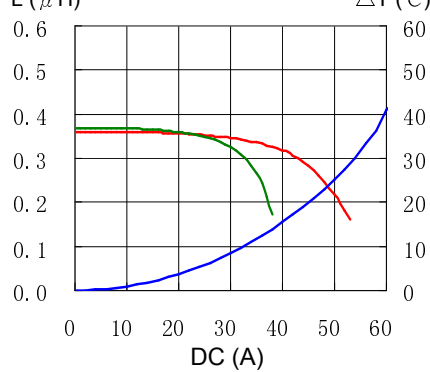
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$

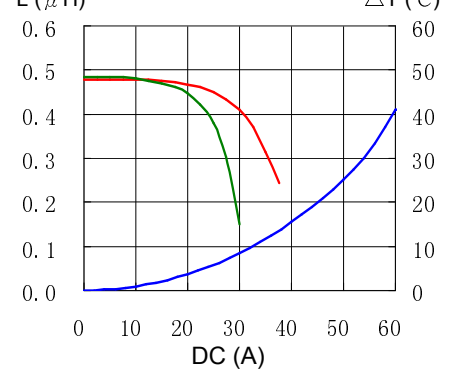
1. CDBH128NP-R22MC



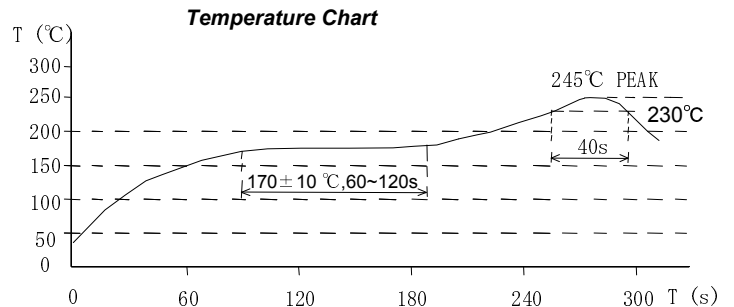
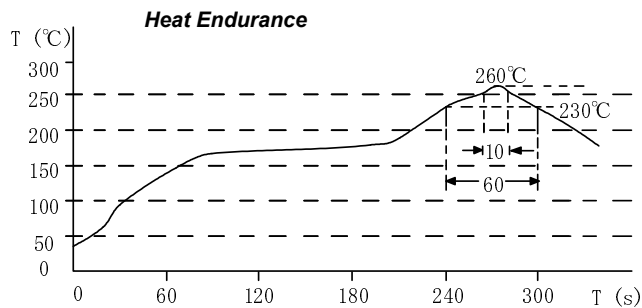
2. CDBH128NP-R36MC



3. CDBH128NP-R45MC



## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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